Notebook, N-10-05-29

Vehicle Road Tests.

Old "Waverly" Runabout

Battery - 45 A4 cells (new in May, 1910.)

Weight of machine and battery (no passengers) - 1580 lbs.

Old "Waverly" – 7 sist #1.

West Orange to New Brunswick

via Shore Route

May 29th 1910.

Time	Mileage	Amperes	Volts	Grade	Con. of Road	Remarks
8.40 A.M.	3829.–		open 67	Level	Good – Macadam	West Orange – Laboratory
8.45		35	66	"	" "	" "
9.00		45	57	2% up grade	" "	South "
9.15		41	55	" "	Fair	Milburn – Dirt Rd
9.25		50	53.5	10% "	Poor	Union "
9.35		32	56	Level	Fair	So. Elizabeth "
9.45		none	open 62	"	"	Elizabeth " (motor head comes loose (Trouble adjusting)
9.50		35	55	"	Good	" Park
10.–		38	53	1% up grade	"	Rinden
10.15		33	54	Level	"	Railway
10.30		25	55	5% down grade	"	Jaralin
10.35		36	54	Level	Bad	Menlo Park
10.45		37	53	"	Fair	Metuchen
11.–		34	53	"	Good	Highland Park
11.15	3860.–	none	open 61	"	Bad (cobble)	New Brunswick
						(Stopped at the Mansion House & had dinner – Left at 12.15 – see over)
						Average mileage going trip 31
						" miles per hr. 13½ miles

New Brunswick to West Orange via Shore Route May 29. 1910

Time	Mileage	Amperes	Volts	Grade	Con. of Road	Remarks
P.M. 12.15	3860.—	none	open 61	Level	Cobbly Bad Stag	New Brunswick
12.16		62	53	abt. 20 ft up grade	" "	" "
12.20		42	53	Slight up "	Good	Highland Park
12.30		35	53	Level	"	Metuchen
12.50		33	53	"	"	Menlo Park
1.—		35	53	"	"	Iselin
1.15	3873.	36	52.5	"	"	Railway {13 miles per hour}
1.30		38	52	slight upgrade	"	Rundon
1.45		33	52	Level	"	Elizabeth
2.—		34	51.5	"	Poor	Union. city.
2.15	3884.	37	51	"	"	Springfield - city
2.30		34	50.5	"	Good	Maplewood
2.45		54	46	10 to 12 grade	"	South Orange
3.00	3893.	32	48	Level	"	West Orange (Laboratory)
3.10		30	47	"	"	" " Vicinity of Laboratory
3.15		35	30	"	"	" " Here's where the voltage dropped very quickly
3.20		32	20	"	"	" " Died on 12 volts.
3.24	3896.3	45	12 (approx 58)	"	"	" "

Total number of miles — 67.3 miles

Average no. miles per hr. app. 12 ½ " (66 miles)

Accidents — none

Correct
Samuelson

Measles Wt 143 -
Elsewhere 150 -

30 miles oiled road, level,
1 mile Loose stone -

45 A 4 Cells
Weight of Machine 1580 lbs.

Old "Waverley" - Test "Z".

June 5, 1910.

Time	Mileage	Amperes	Volts	Grade	Con. of Rd	Remarks.
9.50 A.M.	3920.		open 65			Tweedsmoor
9.52		32	56	Level	Fair	Valley Roads - W.O. oiled
10.-		30	55	"	Good	Orange
10.15		30	54	"	Fair	Barrington
10.30		36	54	"	Good	Newark
10.45		45	52	2½ Grade	Poor	Elizabeth (Dunray) Pleasant Park
10.55		34	53	Level	Good	So. "
11.05		31	53	"	"	Linden
11.15		31	52.5	"	"	Rahway
11.25		50	52	5% Grade	"	Colonia
11.40		38	52	slight "	"	Iselin
11.50		43	51	2½ "	"	Menlo Park
12.-		30	52	Level	"	Metuchen
12.15 P.M.		38	51	slight grade	"	Highland Park
1.20	3950.		open 58.5	Level	"	New Brunswick (Adelaide Av.)

Time P.M.	Mileage	Amperes	Volts	Grade	Con. of Road	Remarks.
12.30	3950.		open 58.5	Level	Good	New Brunswick
12.35		37	51	slight grade	"	" "
12.45		30	51.5	Level	"	Highland Park
1.-		31	51.	"	"	Metuchen
1.15		33	51.	"	"	Iselin
1.30		34	50.	"	"	Railway
1.45		38	48.	1% Grade	"	Linden (Ram)
2.-		32	50	Level	"	Elizabeth "
2.15		41	47.5	2% Grade	Fair	Union " Hills
2.30		30	48	Level	"	Springfield "
2.40		38	46	"	"	Millburn " "
2.45		35	46	"	Poor	Maplewood "
2.50		34	43	"	"	South Orange "
3.-		35	34	"	"	" " (Valley St. near So. Orange Ave.)
3.05		38	24	"	"	" " (Vose Ave.)
3.07	3980.-	45	15 (open 38)	"	"	" " (Mountain Station)

Total No. of Miles 60.

Accidents- none

Delay - 10 minutes - New Brunswick

Died at 15 volts.

Roads very heavy

Data on Test #2 of
Old "Waverly"

Wt. of car + 2 persons	1880 lbs. (.94 tons)
Total Mileage	60
Running Time	5.1 hrs.
Av. speed	11.76 m.p.h.
Av. current (approx.)	33 amps
A-H output	168.3
Av. voltage (approx.)	52
W-H output	8751.6
W-H per car-mile	145.8
" " ton-mile	155.1

Route no 2. Run 3. Old Waverly from W. Orange to Staten Island, N.Y. Tottenville, New Brunswick, Bound Brook, Plainfield

Time		Mileage	Amperes	Volts	Grade	Car of Road	Notes
9.25	a.m	4055		open 65.5			Laboratory
9.30			25	59	Level	Good - Mac	Valley Rd. West Orange
9.45			24	58.5	"	" "	Harrison St. East "
10.			25	58	"	" Asphalt	Clinton Ave - Newark
10.15			23	58	"	" Mac	Irvington-Springfield Ave. Waverly
10.30			24	57	"	" Asphalt	Broad St. Elizabeth
10.45			23	57	"	" Mac	Marshall St. Elizabethport
10.55		4070	arrived at Arthur Kill	open 62	Delay 25 min.		
11.20			left ferry for Staten Is.				
11.21			23	56	Level	Poor - Peanut	Staten Island - Road from Ferry
11.30			23	55.5	"	" - Cobble	Post Richmond. Staten Is.
11.35		4073	arrive d at Pt. Richmond	Ferry open 61.5	for Bergen Point		
11.55			" " Bergen Point		delay ferry 20 min had 2 cars at Bergen Point 1st delay 1 hr 20 min		
12.55	P.m		24	56	Level	Poor - Sand	Ave C. Bergen Point
1.			28	55	Slight grade	Good - macadam	Hudson Co. Blvd. Bayonne
1.15			20	56	" down	" " "	Evansville
1.30			25	55	Level	" "	" " Jersey City
1.45			23	55	"	" asphalt	Mercer St. Jersey City
1.50		4083	arrived at P.R.R. ferry at Jersey City	open 61	Jersey City ferry		Delay 20 minutes
2.10			left ferry for New York				
2.15			23	55	Level	Good - Mac.	Broadway - New York
2.20		4084	Arrived at municipal ferry for St. George				
2.45			Left ferry for Ft. Wadsworth	open 65			Delay on ferryage 25 minutes

Time	Mileage	Amperes	Volts	Grade	Con. of Road	Notes
2.47 P.M	4084	55	52	10% Grade	Cobble	Staten Island
3.		34	53	2½ "	Good - Bithulithic	" "
3.15		40	52	Level	Loose stone	Eagemere S. I.
3.30		21	54	" "	good - mac	Dongan Hills "
3.45		40	52	3½ Grade	" "	Amboy Road "
4.		28	53	Slight "	" "	see " " "
4.15		23	53	Level	" "	note " " " Pleasant Plains
4.30		34	52	1½ Grade	" "	" " " Totten ville
4.35	4101	—	open 59.5	arrived at ferry for P. & R. Amboy, just in time to miss it		
5.05	4101	kept ferry at P. & R. Amboy		delay 30 minutes		
5.05		72	47	2½ Grade	Good - Bithulithic	Hill very steep. Perth Amboy
5.15		26	53	Level	" mac	New Brunswick Ave. " "
5.30		22	53	"	"	Homestead
5.45		23	53	"	"	Metuchen
6.		24	52.5	"	"	Highland Park
6.15	4113	23	52.5	"	"	New Brunswick
6.30		45	50	5% Grade	Poor sand	between N.B. & B.B. (4 miles southward rotten)
6.45		29	51.5	Slight grade	good mac	near Bound Brook
7.		23	52	Level	"	Bound Brook
7.15		23	51.5	"	"	between B.B. & Dunnellen
7.30		30	51	Slight grade	"	Dunnellen
7.45		24	51.5	Level	"	near Plainfield
8.		23	51	"	"	Crown Park
8.15		23	51	"	"	Between " & Dam track
8.25	4130	21	34	"	"	" " " " "

17 miles = 8 miles per hour for 2 hrs. 7 min.

12 miles = 9 miles per hour for 1 hr. 20 min.

17 miles = 8 miles per hour for 2 hrs. 7 min.

Time	Mileage	Amperes	Volts	Grade	Con. of Road	Notes
8.30	4130					Went very slow here, voltage
8.40	4131		open 55	died at 15 V.	good mac	very low and amperes in the
						twenties. Place called Brower
8.40 p.m. phoned to Martin's garage to be towed.						
9.00 P.M. towed into Garage at Plainfield - electrician						
10.		gave machine three hours charge at 25 to		looked over motor to see that same was O.K		
1.15	4133			30. amperes - left Plainfield at		
arrived 3.15	4151			time from Plainfield to Orange - 2 hrs. distance 18 miles.		
				Road from St. George to Jotterville practically all		
				Hilly country.		
time on road one charge		8 hrs. 15 min.				
actual mileage		76.		Road from New Brunswick to 2 miles from Bound Brook		
average miles per hr. abt.		9 miles		soft sand for about 4 miles. Dirt just		
		hr. min.		covered the tires on machine.		
Ran out near Oak Park at		8.40 P.M.				
Left Orange at		9.25 a.m		After passing Bound Brook roads were very fine.		
		11.15				
Delays - 5 Ferries 2 - Dinner 1		2.00		Amboy Road triple heavy - must have been tarred a short		
		8.15		time ago - Sun heated it up.		